SIEMENS

SIREMOBIL Compact

SP

Installation and Startup

4View

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Safety information

- Before starting the installation, the wall socket must be disconnected from the mains supply.
- The product-specific safety information provided in the SIREMOBIL resp. POWERMOBIL system folder and the safety information provided in Part 2 of the ARTD must be observed.
- Once all work has been completed and all covers have been re-attached, a protective ground wire resistance test according to ARTD-002.731.17 must be performed.
  The ground wire resistance must not exceed 0.2 ohms. Also check the protective ground wire connections to the additional monitors and the external keyboard.

Documents required

- 4View operating instructions
- SIREMOBIL resp. POWERMOBIL system operating instructions
- SIREMOBIL resp. POWERMOBIL system folder

Tools and measuring instruments required

NOTE	**All tools and measuring instruments with the exception of these marked with "*" are listed with their specifications in the STC (Service Tool Catalog)**

- Protective ground wire resistance tester (e.g. "Safety tester BENDER UNIMENT 1000 ST", part no. 51 38 727)
- Tool case *
- 1 set of Allen wrenches *

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Preparatory work on the monitor trolley

⚠WARNING

Prior to performing work on the system or the 4View monitor extension, both the monitor trolley and the 4View monitor extension must be disconnected from the mains supply.

Failure to do so can result in serious injury or death.

Disconnect the mains supply to the system and pull the mains plug out of the mains socket!

Disconnect the mains supply to the 4View monitor extension and secure it against reconnecting.

- Disconnect the monitor trolley from the mains supply and pull the mains plug out of the mains socket.
- Open the rear cover of the monitor trolley.
- Unscrew the two monitor covers.

Installing the MS power supply unit

Removing the memory unit

- Disconnect the mains plug.
- Disconnect the BAS and control cables.
- Remove the bottom fastening screws and pull the memory unit out of the monitor trolley.

Mechanical installation of the MS power supply unit

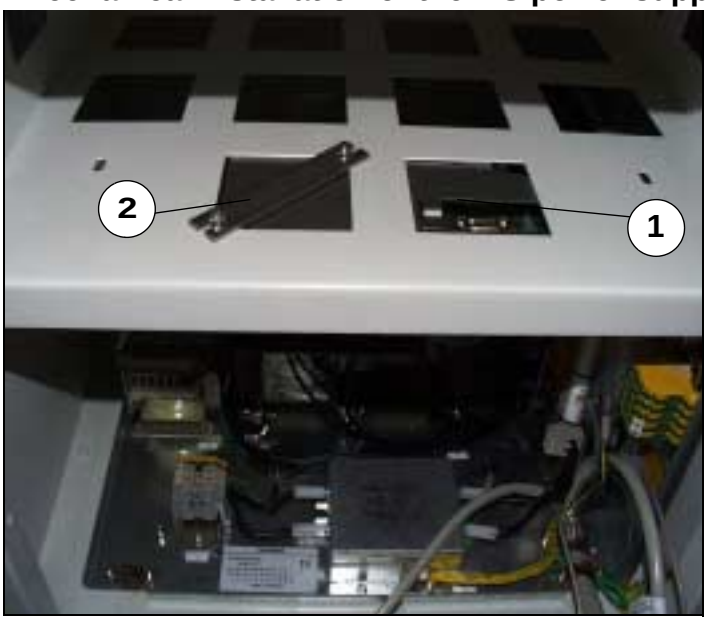

Fig. 1

- Using the retaining plate (2/Fig. 1), mount the MS power supply unit (1/Fig. 1) to the plate from below as shown in (Fig. 1).

Connecting the MS power supply unit to the mains supply

- Plug the keyboard connector into D11 X4.
- Run the ribbon cable X3 from board D11 to the memory unit slot.
- Run the mains cable to board D50 and connect the cables to D50 X3.3 and D50 X3.2.
- Connect the protective ground wire.

Installing the memory unit

- Insert the memory unit into the monitor trolley and attach it with the bottom fastening screws.
- Reconnect the BAS and control cables.
- Plug the ribbon cable X3 from board D11 into the keyboard socket and screw it in place.
- Reconnect the mains plug.

Installing the extra cable harness

- Draw the video cable into the monitor trolley and secure it with the new cable clamp.

Wiring of the extra cable harness

- Open the logbook compartment (remove 2 screws) and take out the logbook.
- Remove the shielding plates over the BNC connectors of the monitors.
- Run the two cables with the BNC plugs MA and MB to the monitors along the existing cable harness.

NOTE	**Monitors 30 64 581 B5310 have no BNC video output sockets. For these monitors, the BNC T-adapters supplied must be used.**

- Connect cable MA to the video output of the fluoro monitor. Connect the outer shield of the triax cable to the monitor housing using the cable clamp.
- Connect cable MB to the video output of the reference monitor. Connect the outer shield of the triax cable to the monitor housing using the cable clamp.
- Secure the cables with cable ties.
- Disconnect the 75 ohm terminating resistors on the two monitors.
  (DIP switch S401.1 in OFF position)
- Plug connector D11.X2 into board D11.X2 and screw it in place.
- Run cable OUT3 to the Memoskop and secure it with a cable tie.
  The cable is not used.

Attaching the extra cable harness

- Run the extra cable harness along the existing cable harness and attach it with cable ties. Make sure that sufficient cable length is available for pulling out the memory unit.

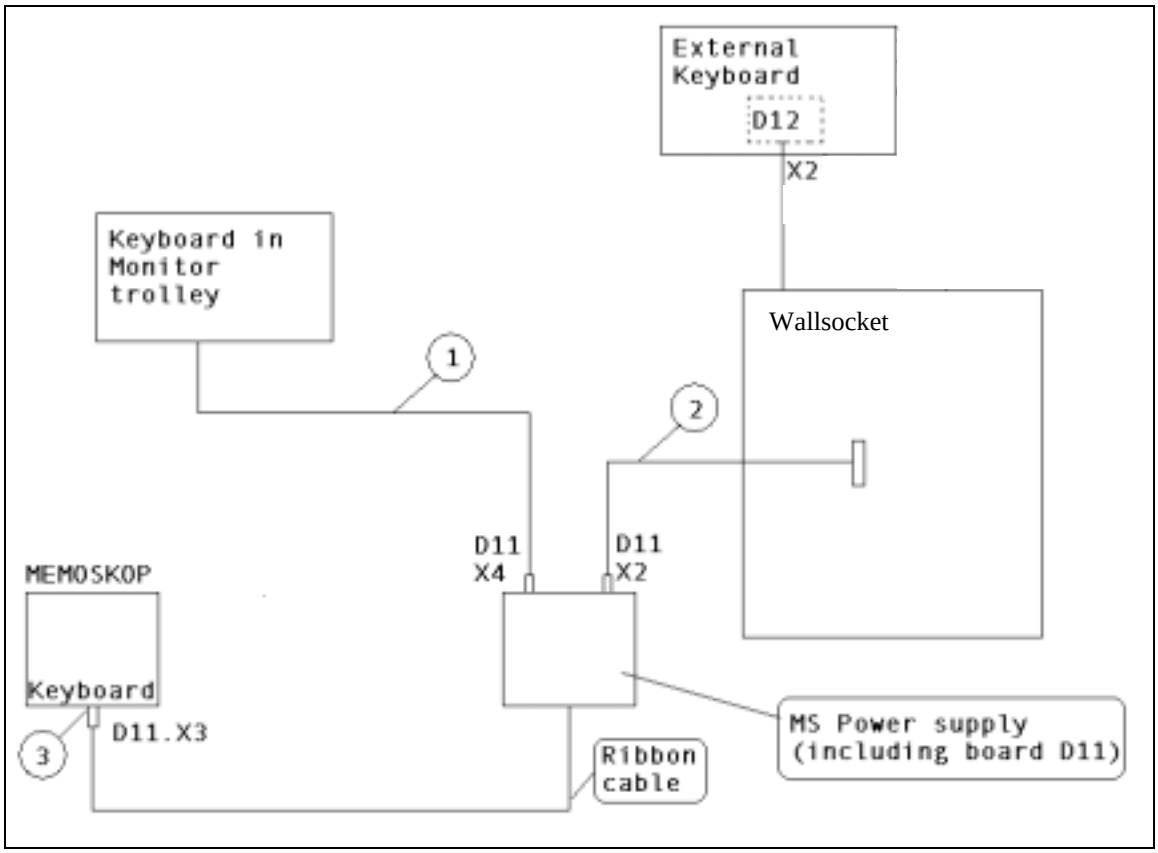

Fig. 2

Wiring of the keyboard

Memoskop internal keyboard + external keyboard

- Connector D11.X2 (2/Fig. 2) of the additional video cable is already plugged into connector D11.X2 of the MS power supply unit and screwed in place.
- Disconnect the keyboard connector from the MEMOSKOP and run the cable to the MS power supply unit.
- Plug the keyboard connector into connector D11.X4 of the MS power supply unit and screw it in place (1/Fig. 2).
- Run the ribbon cable D11.X3 of the MS power supply unit to the MEMOSKOP and connect it to the MEMOSKOP 'keyboard' connector (3/Fig. 2).
- The wiring of the external keyboards is described in Chapter 3 of these instructions.

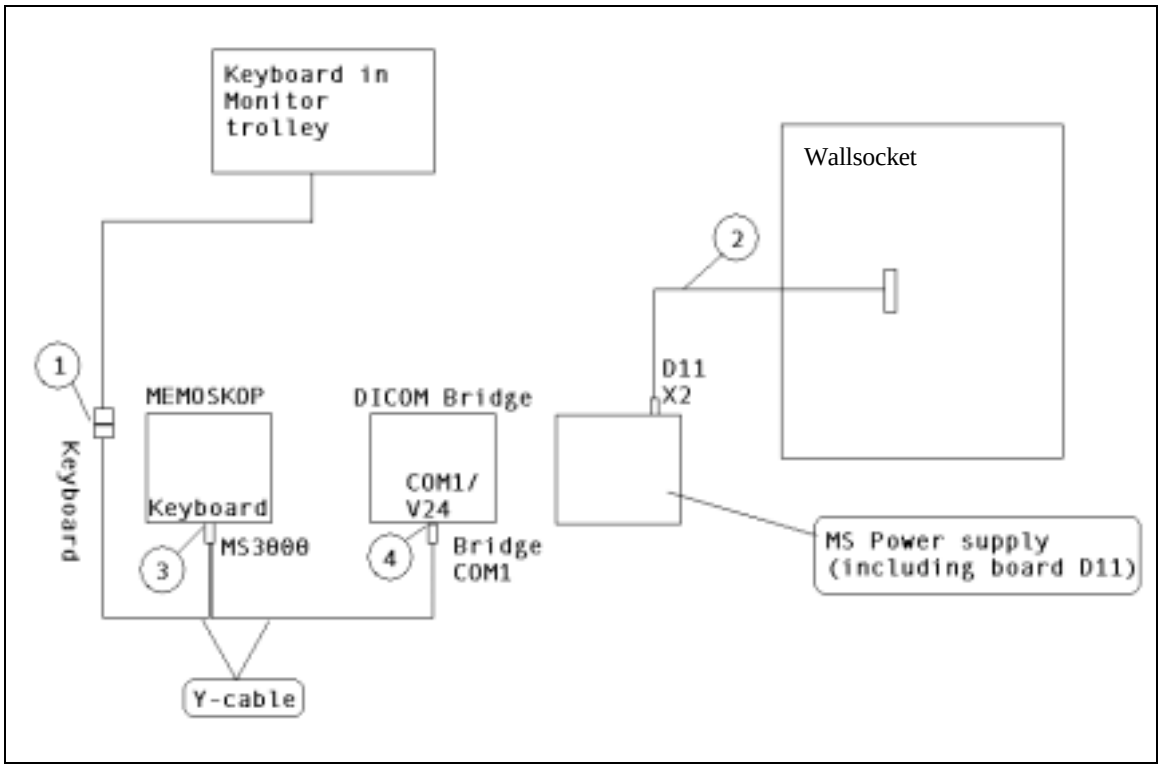

Fig. 3

MEMOSKOP keyboard + DICOM bridge, without external keyboard

- Connector D11.X2 (2/Fig. 3) of the additional video cable is already plugged into connector D11.X2 of the MS power supply unit and screwed in place.
- Disconnect the keyboard connector from the MEMOSKOP.
- Plug connector MS3000 of the Y cable (supplied with DICOM bridge) into the MEMOSKOP 'keyboard' connector and screw it in place (3/Fig. 3).
- Run the cable end with the "Bridge COM1" connector to the DICOM bridge.
- Plug connector "Bridge COM 1" of the Y cable into connector "COM1 / V24" of the DICOM bridge and screw it in place (4/Fig. 3).
- Plug the internal keyboard connector into the 'keyboard' connector of the Y cable (1/Fig. 3).

NOTE	**Connector D11.X4 and connector D11.X3 of the MS power supply unit are not used and remain free.**

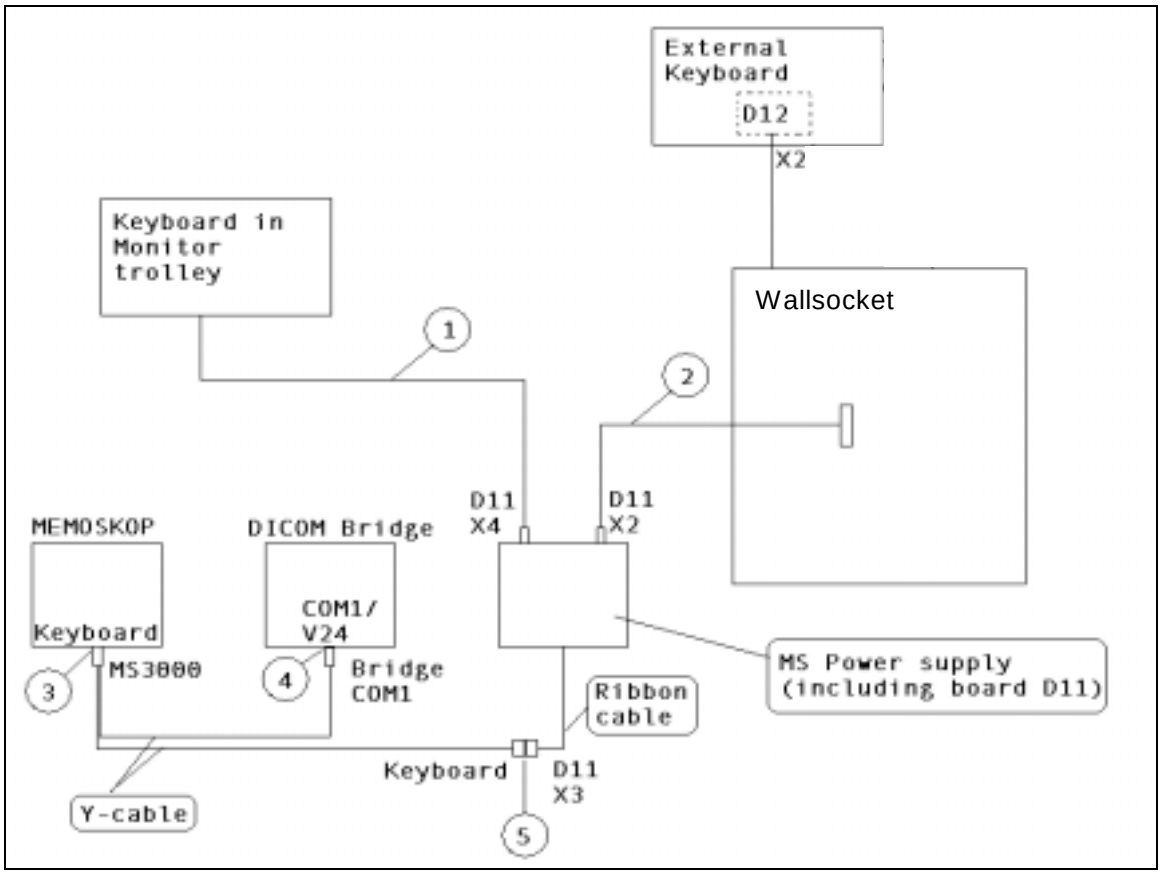

Fig. 4

MEMOSKOP keyboard + DICOM bridge + external keyboard

- Connector D11.X2 (2/Fig. 4) of the additional video cable is already plugged into connector D11.X2 of the MS power supply unit and screwed in place.
- Disconnect the keyboard connector from the MEMOSKOP and run the cable to the MS power supply unit.
- Plug the keyboard connector into connector D11.X4 of the MS power supply unit and screw it in place (1/Fig. 4).
- Plug connector MS3000 of the Y cable (supplied with the DICOM bridge) into the MEMOSKOP 'keyboard' connector and screw it in place (3/Fig. 4).
- Run the Y cable end with the "Bridge COM1" connector to the DICOM bridge.
- Plug connector "Bridge COM 1" of the Y cable into connector "COM1 / V24" of the DICOM bridge and screw it in place (4 /Fig. 4).
- Run the ribbon cable of the MS power supply unit to the 'keyboard' connector of the Y cable.
- Plug connector D11.X3 of the ribbon cable into the 'keyboard' connector of the Y cable (5/Fig. 4).

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Country-specific installation of the mains plug

⚠WARNING

Prior to performing work on the system or the 4View monitor extension, both the monitor trolley and the 4View monitor extension must be disconnected from the mains supply.

Failure to do so can result in serious injury or death.

Disconnect the mains supply to the system and pull the mains plug out of the mains socket!

Disconnect the mains supply to the 4View monitor extension and secure it against reconnecting.

The 4View monitor extension is supplied pre-assembled as per order form with an optional hospital grade 125V mains socket or a CEE mains socket.

Installing the wall socket

- Disconnect the system from the mains supply, pull out the mains plug.
- Disconnect the mains supply to the 4View monitor extension and secure it against reconnecting.
- The wall socket is designed for flush mounting. Flush-mount the wall socket on site or install it in a cable conduit of sufficient width and depth.

Wiring in the wall socket

Requirement: The cables must be routed according to the Multi-room Connection / 4View Monitor Extension Planning Guide.

Wall socket mains connection

- Connect the mains voltage cable to terminal X1:
  Neutral conductor to X1.N, phase conductor to X1.L1, protective ground wire to X1 protective ground wire terminal.

Wall socket external radiation indicator

- Connect the cable of the external radiation indicator to terminal strip X2.1 (bl) and X2.2 (bn).

Wall socket fluoro monitor

- Fasten the additional ground wire leading to the fluoro monitor to the protective ground wire screw of the wall socket. Ensure that good contact is made.
- Connect the mains voltage cable to relay K1:
  Connect the neutral conductor (bl) to K1.2, phase conductor (bn) to K1.4. Fasten the protective ground wire (ge/gn) to the protective ground wire screw. Ensure that good contact is made.
- Connect the video cable of the fluoro monitor to the BNC coupler X3 and lock it.

Wall socket reference monitor (if provided)

- Fasten the additional protective ground wire leading to the reference monitor to the protective ground wire screw of the wall socket. Ensure that good contact is made.
- Connect the mains voltage cable to relay K1:
  Connect the neutral conductor (bl) to K1.1, phase conductor (bn) to K1.2. Fasten the protective ground wire (ge/gn) to the protective ground wire screw. Ensure that good contact is made.
- Connect the video cable of the reference monitor to the BNC coupler X4 and lock it.

Wall socket external keyboard (if provided)

- Fasten the additional protective ground wire leading to the external keyboard to the protective ground wire screw of the wall socket. Ensure that good contact is made.
- The control cable is routed to the external keyboard.
- Connect the cable ends to terminal strip X2 according to the color coding:

Terminal	Color
X2.3	white
X2.4	brown
X2.5	green
X2.6	yellow
X2.7	blue (shield)

Wall socket cable ties

- Secure all cables inside the wall socket with cable ties to prevent cables from being pinched when the cover is opened or screwed on.

Wiring of the monitors

Requirement: The cables must be routed according to the Multiroom Connection / 4View Monitor Extension Planning Guide.

- Screw the additional protective ground wires to the corresponding monitors, ensuring that good contact is made.
- Connect the mains cables to the mains sockets of the additional monitors.
- Connect the video cables to the BAS inputs of the additional monitors .
  Using the cable clamps, connect the external shielding of the triax cable to the monitor housing.
- Switch on the 75 ohm terminating resistors on both monitors (DIP switch S401.1 in the ON position).

Wiring of the external keyboard

Requirement: The cables must be routed according to the Multiroom Connection / 4View Monitor Extension Planning Guide.

- Screw the additional protective ground wire to the housing of the external keyboard, ensuring that good contact is made.
- Connect the external keyboard connection cable to connector X2 of the keyboard and fasten it.

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Checking the mains voltage settings

⚠CAUTION	**Before switching on the SIREMOBIL system resp. POWERMOBIL System and the 4View monitor extension, check that the mains voltage (SIREMOBIL system resp. POWERMOBIL system and additional monitors) is set correctly!** **An incorrect mains voltage setting can destroy the system or monitors!**

Checking the mains voltage at the wall socket

- Prior to startup, the mains voltage setting of the system must be compared with the mains voltage at the mains supply socket of the wall socket.
- To do so, measure the mains voltage at the wall socket with the SIREMOBIL/ POWERMOBIL system disconnected and compare it with the mains voltage setting of the SIREMOBIL/POWERMOBIL system.
- If necesary, alter the mains voltage setting at the On/OFF assembly of the SIREMOBIL/ POWERMOBIL system as required and mark the corresponding voltage on the mains voltage label of the monitor trolley.

Mains voltage setting of the monitors

NOTE	**The default voltage setting of the monitors is 230 V~. The monitors are supplied with corresponding fuses and the mains voltage labels for 120 V~.**

- Check the mains voltage setting of the monitors and, if necessary, adjust the setting so that it corresponds to the local mains voltage. Also check the fuse values of the monitors against the monitor documentation and change them, if necessary.
  Affix the correct mains voltage label over the existing label.

Installing the covers

Re-install all covers of the SIREMOBIL/POWERMOBIL system. Ensure that the protective ground wire connections make good contact.

Screw the cover on the wall socket. Make sure that you do not pinch any cables and that the protective ground wire connections make good contact.

Install all covers of the additional monitors.

Close all covers.

Ground wire test

- Connect the mains plug of the SIREMOBIL/POWERMOBIL system to the wall socket.
- Connect the additional control cable into the wall socket and lock it.
- Connect the monitor trolley cable to the electronics cabinet and lock it.
- Check the function of the ground fault circuit breaker.

- Perform the protective ground wire test. The protective ground wire resistance must not exceed 0.2 ohms. Also check the protective ground wire connections to the external monitors and the external keyboard.

Startup

- Switch on the mains voltage to the monitor extension (fuse in distribution board).
- Check if the SIREMOBIL/POWERMOBIL system switches on and off correctly. When the SIREMOBIL/POWERMOBIL system is switched off, the additional monitors must also be disconnected from the mains voltage supply.
- Check the function of the external monitors. To do so, call up stored images and display them on both monitors.
- Check the function of the internal and external keyboard.
- Check the function of the internal and external radiation indicator lamps on release of radiation.
- Perform the IQ quick test.

Handover to the customer

- File the addendum to the operating manual in the customer's operating manual.
- Advise the customer that the terminator must be fitted to the additional cable if the SIREMOBIL/POWERMOBIL system is to be operated without the 4View monitor extension. Demonstrate how the terminator is locked and unlocked.
- Show the customer the addendum to the operating manual and hand over the manual.

Concluding work

- File these instructions in the system folder.

Changes to previous version 5 - 1

Kap. 0	Cover page, revision level, table of contents revised
Kap. 1	New revised
Kap. 4	SIREMOBIL System New inserted POWERMOBIL System

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